

High Mountain Dams in Bonneville Unit,  
Long Lake Dam (North Fork No. 3 Lake Dam)  
Wasatch National Forest  
2.2 miles west of Trial Lake Campground  
Kamas vicinity  
Summit County  
Utah

HAER No. UT-41-F

HAER  
UTAH,  
22-KAMV,  
1-F

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record  
Rocky Mountain Regional Office  
National Park Service  
U.S. Department of the Interior  
P.O. Box 25287  
Denver, Colorado 80537

HISTORIC AMERICAN ENGINEERING RECORD

HAER  
UTAH  
22-KAM.  
1-F-

High Mountain Dams in Bonneville Unit, Long Lake Dam  
(North Fork No. 3 Lake Dam)

HAER No. UT-41-F

Location: 2.2 miles west of Trial Lake Campground, Wasatch National Forest  
Kamas vicinity, Summit County, Utah

UTM: 12.501530.4503460  
Quad: Mirror Lake

Date of Construction: 1923

Builder/Designer: Provo Reservoir Company, Provo, Utah

Present Owner: Union Reservoir Company, Heber City, Utah 84032

Original Use: Dam

Present Use: Dam

Significance: Construction of Long Lake Dam was undertaken in 1923 by the Provo Reservoir Company to augment water flow through its canal to the pumping station completed that same year at the Jordan Narrows. The dam is representative of the small-scale earth-fill construction found in the Bonneville Unit of the Central Utah Project.

Inventoried by: Clayton Fraser and James Jurale  
Fraserdesign  
Loveland, Colorado

October 16, 1985

### HISTORICAL INFORMATION

The dam on Long Lake was constructed in 1923 for the purpose of storing irrigation water. The National Forest Service had initially issued a special use permit to the Provo Reservoir Company of Provo, Utah, in September 1914. The reservoir company built dams on Long and Lost lakes in the same year. The Long Lake Dam was refaced in 1940. The dam and secondary dike are situated across the lake's natural drainage at its southern tip. Both structures feature typical earth-fill construction, with compacted clay cores, earth fill over and rock riprap on the sloping upstream concrete; an inclined 18" Hardesty sliding headgate is fitted at the pipe's inlet. A concrete spillway is located on the eastern end of the dam. Seepage has been observed on the downstream toe of the dam. It is proposed that the dam be refaced and the outlet and spillway replaced.

### ARCHITECTURAL INFORMATION

Dam length: 342 feet  
Dam height: 26 feet  
Dam width: 16 feet  
Construct: Earth fill dam with stone riprap facing  
Lake size: 55.1 acres; 975 acre-foot maximum capacity; 23 vertical foot maximum drawdown  
Outlet: 18" steel pipe with inclined gate; concrete spillway

### BIOGRAPHICAL INFORMATION

"Preliminary Engineering Report: Stabilization of High Mountain Lakes, Provo River Drainage, National Forest Service Report, 1969, page 29.

Long Lake Reservoir File #16-F, Kamas Ranger Station, Wasatch National Forest, Kamas, Utah

Field inspection by Clayton Fraser and Robert Righter, July 25, 1985.

For additional information, see Irrigation Canals in the Uinta Basin, HAER No. UT-30.

High Mountain Dams in Bonneville Unit,  
Long Lake Dam (North Fork No. 3 Lake Dam)  
HAER No. UT-41-F  
(Page 3)

